



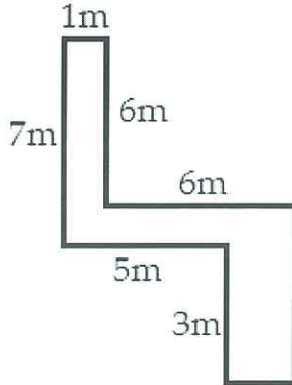
Name: _____
Mr. Tiénou-Gustafson & Mr. Biellemeier
Geometry, Period _____
Due Date: Fri, 8 May 2015

HW151 - mixed review

**Geometry
Homework**

Review problems – show work on all problems!

Find the perimeter of the polygon below.



- A. 28m
- B. 30m
- C. 34m
- D. 36m

The area of a rectangle with a length of L and a width of W is given by the equation $A=L \cdot W$. Which of the following is a correct rewriting of this equation?

- A. $L = \frac{A}{W}$
- B. $L = A - W$
- C. $L = \frac{W}{A}$
- D. None of the above are correct

Every month Katie gets a \$1,600 paycheck. She uses $\frac{6}{16}$ of her paycheck for rent; $\frac{1}{8}$ for utilities; $\frac{1}{4}$ for food; and $\frac{1}{8}$ for other bills. How much money does Katie have left to put into her savings after these expenses?

- A. \$150
- B. \$200
- C. \$225
- D. \$250

Two soup cans are similar in shape. The table below gives some data about these cans.

	Can 1	Can 2
Area of label	8 cm ²	72 cm ²
Volume of can	32 cm ³	?

What is the volume of the 2nd can?

- A. 96 cm³
- B. 288 cm³
- C. 864 cm³
- D. 2592 cm³

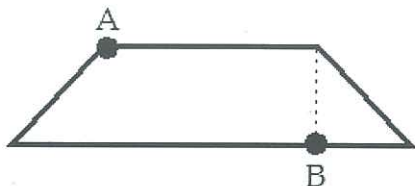
On Monday, gas prices increased by 25%. On Tuesday, they increased by 32%. The overall increase over the two days was...

- A. 29%
- B. 47%
- C. 65%
- D. 80%

What is 314,000,000 expressed in scientific notation?

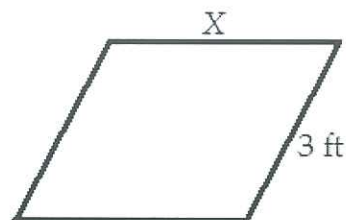
- A. 3.14×10^{-8}
- B. 314×10^{-6}
- C. 314×10^6
- D. 3.14×10^8

What is the shortest distance from A to B around the perimeter of the isosceles trapezoid below?



- A. Clockwise (to the right)
- B. Counter-clockwise (to the left)
- C. The distances are the same
- D. Cannot be determined from the given information.

The perimeter of the parallelogram below is 15ft. What is the value of X?



- A. 4.5 ft
- B. 5.0 ft
- C. 5.5 ft
- D. 6.0 ft

A tennis ball has a 3 inch radius and a small beach ball has a 5 inch radius. What is the ratio of the tennis ball's volume to the beach ball's volume?

- A. $\frac{3}{5}$
- B. $\frac{9}{15}$
- C. $\frac{9}{25}$
- D. $\frac{27}{125}$

A Target manager wants to make sure that the chance of a customer selecting a Snickers at the check-out aisle is $\frac{3}{7}$. If there are currently 9 kinds of candy, and 1 of them is a Snickers, how many more snickers need to be added?

- A. 2
- B. 3
- C. 5
- D. 7
- E. 8

If one side of the rectangle is 3 times as long as the other side, what expression could represent the area of the rectangle? Include a picture to justify your answer.

- A. $x + 3$
- B. $x(x + 3)$
- C. $x(3x)$
- D. $x(x) + 3$
- E. $3x$

If one side of the rectangle is 3 inches longer than the other side, what expression could represent the area of the rectangle? Include a picture to justify your answer.

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- C. $x(3x)$
- D. $x(x) + 3$
- E. $3x$

If the rectangle in the problem above had an area of 48 square inches, what are the two side lengths?

If the rectangle in the problem above had an area of 28 square inches, what are the two side lengths?